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L1: Entry 1 of 9

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020119530

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020119530 A1

TITLE: Method of increasing product expression through solute stress

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Maiorella, Brian	Oakland	CA	US	
Inlow, Duane	Oakland	CA	US	
Howarth, William	Richmond	CA	US	

US-CL-CURRENT: 435/70.21; 435/366[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)☐ 2. Document ID: US 6238891 B1

L1: Entry 2 of 2

File: USPT

May 29, 2001

US-PAT-NO: 6238891

DOCUMENT-IDENTIFIER: US 6238891 B1

TITLE: Method of increasing product expression through solute stress

DATE-ISSUED: May 29, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maiorella, Brian	Oakland	CA		
Inlow, Duane	Oakland	CA		
Howarth, William	Richmond	CA		

US-CL-CURRENT: 435/70.21; 435/252.3, 435/326, 435/69.1, 435/70.1, 530/386, 530/388.1, 530/388.15, 530/412[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)☐ 3. Document ID: US 6048728 A

L1: Entry 3 of 9

File: USPT

Apr 11, 2000

US-PAT-NO: 6048728

DOCUMENT-IDENTIFIER: US 6048728 A

TITLE: Cell culture medium for enhanced cell growth, culture longevity, and product expression

DATE-ISSUED: April 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inlow; Duane	Oakland	CA		
Maiorella; Brian	Oakland	CA		
Howarth; William	Castro Valley	CA		

US-CL-CURRENT: 435/404; 435/325, 435/375

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 4. Document ID: US 5721121 A

L1: Entry 4 of 9

File: USPT

Feb 24, 1998

US-PAT-NO: 5721121

DOCUMENT-IDENTIFIER: US 5721121 A

TITLE: Mammalian cell culture process for producing a tumor necrosis factor receptor immunoglobulin chimeric protein

DATE-ISSUED: February 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Etcheverry; Tina	Berkeley	CA		
Ryll; Thomas	San Mateo	CA		

US-CL-CURRENT: 435/69.7; 435/325, 435/328, 435/358, 435/361, 530/387.3, 530/395

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 5. Document ID: US 5705364 A

L1: Entry 5 of 9

File: USPT

Jan 6, 1998

US-PAT-NO: 5705364

DOCUMENT-IDENTIFIER: US 5705364 A

TITLE: Mammalian cell culture process

DATE-ISSUED: January 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Etcheverry; Tina	Berkeley	CA		
Ryll; Thomas	San Mateo	CA		

US-CL-CURRENT: 435/70.3; 435/375, 435/383, 435/395

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 6. Document ID: US 5156964 A

L1: Entry 6 of 9

File: USPT

Oct 20, 1992

US-PAT-NO: 5156964

DOCUMENT-IDENTIFIER: US 5156964 A

TITLE: Methods for adapting cells for increased product production through exposure to ammonia

DATE-ISSUED: October 20, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inlow; Duane	Oakland	CA		
Maiorella; Brian	Oakland	CA		
Shauger; Andrea E.	Albany	CA		

US-CL-CURRENT: 435/375; 530/350, 530/388.1, 530/388.15, 530/865

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 7. Document ID: WO 8904867 A1

L1: Entry 7 of 9

File: EPAB

Jun 1, 1989

PUB-NO: WO08904867A1

DOCUMENT-IDENTIFIER: WO 8904867 A1

TITLE: METHOD OF INCREASING PRODUCT EXPRESSION THROUGH SOLUTE STRESS

PUBN-DATE: June 1, 1989

INVENTOR-INFORMATION:

NAME	COUNTRY
MAIORELLA, BRIAN	US
INLOW, DUANE	US
HOWARTH, WILLIAM	US

US-CL-CURRENT: 435/70.21

INT-CL (IPC): C12N 5/00; C12P 21/00

EUR-CL (EPC): C12N005/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 8. Document ID: US 6238891 B1

L1: Entry 8 of 9

File: DWPI

May 29, 2001

DERWENT-ACC-NO: 2001-366475

DERWENT-WEEK: 200138

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TITLE: Increasing protein expression in a cell culture, useful for increasing antibody production, comprises adding to the cell medium a solute inhibiting cell growth or density in an amount above the amount needed for optimal cell growth

INVENTOR: HOWARTH, W; INLOW, D ; MAIORELLA, B

PRIORITY-DATA: 1989US-0443445 (November 29, 1989), 1987US-0122015 (November 18, 1987), 1992US-0841906 (February 26, 1992), 1995US-0482421 (June 7, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6238891 B1	May 29, 2001		012	C12P021/08

INT-CL (IPC): C12 N 5/16; C12 P 21/08

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 9. Document ID: WO 8904867 A

L1: Entry 9 of 9

File: DWPI

Jun 1, 1989

DERWENT-ACC-NO: 1989-178386

DERWENT-WEEK: 200138

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TITLE: Determining optimal prod. expression in animal cell culture - by varying solute concn. from that which is optimal for cell growth

INVENTOR: HOWARTH, W; INLOW, D ; MAIORELLA, B

PRIORITY-DATA: 1987US-0122015 (November 18, 1987)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 8904867 A	June 1, 1989	E	033	

INT-CL (IPC): C12N 5/00; C12P 21/00; C12R 11/91

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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EXPRESSIONS.DWPI,TDBD,EPAB,USPT,PGPB.	38122
((SOLUTE ADJ STRESS) AND EXPRESSION).USPT,PGPB,EPAB,DWPI,TDBD.	9
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